



## CITY COMMISSION STAFF REPORT

**DEPARTMENT:** Utilities Department

**DATE:** October 24, 2024

**SUBJECT:** Motion to approve a Change Order to Purchase Order No. 2024-8636 for The Cooper City/Broward Sheriff's Office (BSO) Police Station Heating, Ventilation and Air Conditioning (HVAC) System - **Utilities**

**CITY MANAGER RECOMMENDATION:**

The City Manager Recommends approving this Change Order to Purchase Order No. 2024-8636, which was for purchasing and installing a new Air Conditioning System Trane Tracer SC Enabled System Controller. The Change Order is to retrofit controls to two Air Handlers and 20 variable air volume controllers in the Broward Sheriff's Office Administration Building HVAC system.

**BACKGROUND OF ITEM:**

On June 27, 2024, the City of Cooper City issued Purchase Order No. 2024-8636 for Trane U.S., Inc. to install a new Trane Tracer SC Enabled System Controller in the main Air Conditioning unit, following the replacement of. During attempts (by qualified Trane U.S., Inc. staff to integrate the downstream air handling and VAV controllers, the Trane representative was not able to bring in complete control of many of the two air handlers and VAV box controllers. These downstream control units are of a different brand (Siemens), are of significant age, and are incompatible with the new Trane SC Enabled System Controller. They must also be replaced. As a result, Trane U.S., Inc. recommends replacing the two (2) Air Handler controllers and twenty (20) VAV controllers with Trane U.S., Inc. equipment for compatibility and continuity such that the entire system can be properly controlled, which will allow proper temperatures and air volumes to be regulated for more efficient cooling throughout the building.

**STRATEGIC PLAN:**

Proper indoor ambient working conditions support the strategic plan by providing efficient cooling systems that consume less energy and provide a more stable and productive workforce. Many adverse conditions could result from leaving this matter unresolved, and employees who must ensure public safety must be provided with an adequate and comfortable working environment.

**FISCAL IMPACT:**

In October 2022, \$321,245 was spent to provide replacement of the north, 40-ton HVAC system with a roof-mounted compressor unit and indoor air handler replacement, a turnkey installation by Trane U.S., Inc. On June 14, 2024, Purchase Order 2024-8636 was issued to install a Trane Tracer SC Web Enabled System Controller for \$28,002. An additional \$42,039.98 is required to complete this project. This \$42,039.98 will be added to the existing PO via a change order. The existing balance in this line item is \$10,000.50. This will require a budget amendment of \$32,039.48 from Professional Services-ARPA to fund this project fully.

<u>General Ledger Acct. Number</u>	<u>Budgeted Amount</u>	<u>Requested Amount</u>	<u>Remaining Amount</u>
110-160-566000-519-HVAC1	\$10,000.50	\$32,039.48	\$42,039.98
110-160-531100-519	\$275,000	-\$32,039.48	\$242,960.52

**ALTERNATIVES:**

The alternative to installing the requested controller sets would be to continue utilizing the incompatible Siemens, which cannot adequately control end VAVs. Air manipulation is required to perform these functions. Since VAVs cannot reasonably be set at fractional open or close points, VAVs must be run wide open or closed, resulting in inefficient cooling and uncomfortable cooling in spaces occupied by BSO employees and the public.

**ATTACHMENTS:**

1. Purchase Order 2024-8636
2. Trane U.S., Inc. Proposal for Retrofit Controls for two existing VAV Air Handlers
3. Trane U.S., Inc. Proposal for Retrofit for twenty (20) existing VAV Controllers